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DRAFT BASIC ASSESSMENT REPORT FOR THE PROPOSED OKUSHA SUPPLY LAYER FARM DEVELOPMENT WITHIN THE MPOFANA LOCAL MUNICIPALITY, UMGUNGUNDLOVU DISTRICT, KWAZULU-NATAL

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CONTENT AND GENERAL REQUIREMENTS

Note that:

This Basic Assessment Report is the standard report format which, in terms of Regulation 16(3) of the EIA Regulations, 2014 (as amended) must be used in all instances when preparing a Basic Assessment Report for Basic Assessment applications for an environmental authorisation in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998) ("NEMA") and the EIA Regulations, 2014 (as amended) and/or a waste management licence in terms of the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008) ("NEM:WA"), and/or an atmospheric emission licence in terms of the National Environmental Management: Air Quality Act, 2004 (Act No. 39 of 2004) ("NEM:AQA") when the Western Cape Government: Environmental Affairs and Development Planning ("DEA&DP") is the Competent Authority/Licensing Authority.

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¹ In terms of Regulation 40(3) potential or registered interested and affected parties, including the Competent Authority, may be provided with an opportunity to comment on the Basic Assessment Report prior to submission of the application but must again be provided an opportunity to comment on such reports once an application has been submitted to the Competent Authority. The Basic Assessment Report released for comment prior to submission of the application is referred to as the "Pre-Application Basic Assessment Report". The Basic Assessment Report made available for comment after submission of the application is referred to as the "Draft Basic Assessment Report". The Basic Assessment Report together with all the comments received on the report which is submitted to the Competent Authority for decision-making is referred to as the "Final Basic Assessment Report".



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Acronyms

BAR Basic Assessment Report

BID Background Information Document

CBA Critical Biodiversity Area

DEA National Department of Environmental Affairs

DWS National Department of Water and Sanitation

EAP Environmental Assessment Practitioner

EIA Environmental Impact Assessment

EMPr Environmental Management Programme

I&APs Interested and Affected Parties

KZN EDTEA KwaZulu-Natal Department of Economic Development, Tourism

and Environmental Affairs

NEMA National Environmental Management Act, 1998 (Act No. 107 of

1998)

NEM: AQA National Environmental Management: Air Quality Act, 2004 (Act No.

39 of 2004)

NEM:BA National Environmental Management Biodiversity Act [Act No. 10

of 2004

NEM:WA National Environmental Management: Waste Act, 2008 (Act No. 59)

of 2008)

NHRA National Heritage Resources Act, 1999 (Act No. 25 of 1999)

PPP Public Participation Process



STRUCTURE OF THE REPORT

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1. DETAILS OF THE PROJECT PROPONENT

The Applicant for the proposed project is the Okusha Supply and Projects. The details of the Applicant are as follows:

TABLE 1: APPLICANT DETAILS

Applicant	Okusha Supply and Projects
Representative	Miss Makhosazane Xakaza
Postal Address	Balmoral Farm
Telephone	082 977 4583
E-mail	makhosixakaza10@gmail.com

2. DETAILS OF THE ENVIRONMENTAL ASSESSMENT PRACTITIONER

The environmental team of Baboloki Geohub & Project Managers [hereafter referred to as Baboloki Geohub] are appointed as the Environmental Assessment Practitioner [EAP] on behalf of Okusha Supply and Projects. Baboloki Geohub is therefore undertaking the appropriate environmental studies for this proposed project.

TABLE 2: EAP DETAILS²

Detail	Baboloki Geohub	
Contact Person	Miss Kudakwashe Michele Samantha Zhandire	
Address	110 Signal Hill, 45 Nienaber Road, Prestbury, 3201	
Telephone 079 962 1987		
E-mail <u>babolokigeohub@gmail.com</u>		
Qualification	Bachelor of Arts Geography & Environmental Science and International Relations	
Affiliations	Environmental Assessment Practitioners Association of South Africa (EAPASA) – Registered EAP	

 $^{^2}$ Full curriculum vitae of the above practitioners can be found in Appendix G of this report. [double-check this – above reference to EAP is Appendix G]



Detail	Baboloki Geohub	
	International Association of Impact Assessment South Africa	
	(IAIAsa)	
	Institute for Waste Management of Southern Africa (IWMSA)	
Experience	10 years	

Kudakwashe Zhandire is the Director at Baboloki Geohub. Having obtained her Bachelor of Arts Degree from the Monash South Africa University; she has over 10 years' experience in the environmental consulting industry in southern Africa. She has gained extensive experience in the field of Integrated Environmental Management, environmental impact assessments and public participation. She has also been actively involved in a number of projects, including road and water infrastructure, sanitation, irrigation as well as renewable energy facilities. Kudakwashe has major project experience in the development of Environmental Impact Assessments, Basic Assessments, Environmental Management Plans and the monitoring of construction activities. Her areas of expertise include project management, environmental scoping and impact assessments, environmental management plans, environmental compliance monitoring and environmental feasibility studies. For the detailed experience of the EAP, refer to Appendix G of this fBAR.



3. EXECUTIVE SUMMARY OF THE BASIC ASSESSMENT REPORT:

3.1. The Proposed Development

Okusha Supply and Projects, under the funding of the KwaZulu Natal Department of Agriculture and Rural Development has proposed the development of Okusha Supply & Projects layer farm, a poultry farm located on Balmoral Farm, Reitvlei, Mpofana Local Municipality. The project entails the construction of 2 buildings each measuring 50m long by 10m wide, each housing 5,000-layer chickens making a total 10,000 chickens in a one-year cycle. The farm has existing infrastructure including a functional borehole to provide water for the layer operation, buildings and a gravel road leading up to the property.

3.2. Site Location & Description:

Balmoral farm is located in the area of Reitvlei, along the R622 towards Greytown. Mpofana Local Municipality is one of the seven municipalities within uMgungundlovu District Municipality. The large area of Mpofana falls under commercial farmland, with some farms privately owned by individuals whilst a small portion is owned by the State.

Site and activity alternatives and re-alignment have been proposed with adequate mitigations in sensitive environments incorporated. The proposed project is aimed at providing an alternative stream of income over crop production and boosting employment opportunities and reducing dependence on the SASSA social grant of the people on the farm.

3.3. Aims and Purpose of this Report

The purpose of this Basic Assessment Report (BAR) is to present the environmental impact assessment undertaken on the preferred alternative for the proposed development. The preferred site layout and technical specifications, were assessed by the specialists and their findings and assessment are collated in this BAR. This BAR will



provide sufficient information for the competent authority to make an informed decision on the proposed development. The report further addresses comments received during the public participation process.

The BA for Okusha Supply & Projects Layer Farm aims to achieve the following:

- Conduct a consultative process
- ❖ Determine the policy and legislative context within which the proposed activity is undertaken and how the activity complies with and responds to the policy and legislative context.
- Describe the need and desirability of the proposed alternatives.
- Undertake an impact and risk assessment process inclusive of cumulative impacts (where applicable). The focus will include- determine the geographical, physical, and biological sensitivity of the sites and the risk of impact of the proposed activity and technology alternatives on these aspects to determine the nature, significance, consequence, extent, duration, and probability of the impacts occurring to, and the degree to which these impacts

3.4. Legal Requirements

The National Environment Management Act, 1998 (Act No 107 of 1998) (NEMA) promotes the use of scoping and EIA in order to ensure the integrated environmental management of activities.

Section 24(1) of NEMA states:

"In order to give effect to the general objectives of integrated environmental management laid down in this Chapter, the potential impact on the environment of listed activities must be considered, investigated, assessed and reported to the competent authority charged by this Act with granting the relevant environmental authorisation."

EIA is ultimately a decision-making process with the specific aim of selecting an option that will provide the most benefit, and cause the least impact. The EIA process should identify activities which may have a detrimental effect on the environment, and which would therefore require environmental authorisation prior to commencement.

Mpofana Local Municipality, Kwazulu-Natal



The EIA process commences with formally notifying the KwaZulu-Natal Department of Economic Development, Tourism and Environmental Affairs (KZN EDTEA) of the proposed development by the submission of application forms. Following the notification, the EAP, along with the team of technical specialists, will commence the process with defining the appropriate "scope" of the EIA process. This involves establishing the existing environmental baseline of the site proposed for development, considering the type of development and its potential impacts on the existing environment, and therefore determining what potential impacts should be assessed and how, within the EIA process.

The EAP therefore compiles a Draft BA Report which is made available for public and stakeholder comment for a prescribed consultation period. All comments received in response to the Draft BAR will be considered and as appropriate incorporated into the Final BAR.

I&APs will then be notified of the availability of the Final BAR and advised that should they like to comment on the report, they must submit their comments directly to the KZN EDTEA (contact details for KZN EDTEA will be included in the notification documents). Once a FBAR has been submitted, the competent authority (the KZN EDTEA) will make a decision on whether to grant or refuse Environmental Authorisation.

TABLE 3: LISTED ACTIVITIES OF THE EIA REGULATIONS 2014 [AS AMENDED IN 2017]

Relevant notice	Activity No[s]
GN R No. [GNR] 327 Listing Notice 1	5(ii), 12,
GN R No. [GNR] 324 Listing Notice 3	12, 14

3.5. Public Participation

The key phases of this environmental authorisation process are described below:

❖ Initial Notification and Call to Register as I&APs through the following: Advertisements, site notices, posters, letters to landowners and pre-identified I&APs.



The aim of this step is to inform people of the proposed activity and to encourage initial comment and feedback.

- ❖ Basic Assessment Process: Collation of initial comments and specialist investigations into a concise report (this document) which provides feedback on the following:
 - Nature of the activity;
 - Description of the receiving environment;
 - Identification of potential feasible alternatives;
 - Identification of potential positive and negative impacts; and
 - Identification of knowledge gaps.

The process has involved an investigation and comparative assessment of the proposed development. The identified impacts have been assessed and relevant management and mitigation measures have been included in an Environmental Management Programme (EMPr). The findings are included in this Report.

Ongoing Public Consultation: Throughout the process, registered I&APs were consulted. This involvement was initiated through the dissemination of information by means of advertisements and notification letters, and opportunities were provided for Interested and Affected Parties (I&APs) to review and comment on the proposed development.

Following the completion of the relevant processes described above and the submission of documentation to the competent authority (KZN EDTEA), the KZN EDTEA will review the application and issue a decision (called an Environmental Authorisation). I&APs will be informed of the decision and their rights to appeal.

In terms of Public Participation for the proposed development, the following tasks have been completed:

 Interested and Affected Parties (I&APs) have been identified throughout the process. Initial identification of I&APs was done by identifying all landowners adjacent to the site boundary. Ward councillors, Authorities have also been informed;



- An advertisement was placed in a local newspaper the Estcourt and Midlands News on Thursday 15th April 2021 to notify the public of the proposal; Notification letters, and project information was distributed on December 4th 2020;
- This Draft BAR is available for public review from the 16th April 2021 20th May
 2021.
- Seven (7) site notices were placed on the boundaries of the development site on the 4th December 2020;
- The comment period on the Draft Basic Assessment Report closes on the 20th May 2021.

After the initiation of the public participation process, correspondence for the remainder of the process is directed to I&APs who are registered and placed on the project database. Correspondence with I&APs has been via telephone and email.

3.6. Assumptions, Gaps and Limitations of the study

The BA process followed the legislated process required and as governed and specified by the EIA Regulations [2014 as amended in 2017]. Inevitably, when undertaking scientific studies, challenges and limitations are encountered. For this specific BA, the following assumptions and limitations are applicable to this study:

The following assumptions and limitations are applicable to this study:

- ❖ The assumption is made that the information on which this report is based (specialist studies and project information, as well as existing information) is accurate and correct at the time of writing this report.
- ❖ It is assumed that the recommendations derived from this study would be included in all tender documentation and the EMP for implementation.

Wetland Verification Assessment

The following limitations and assumptions were applicable to this assessment:

❖ Watercourse delineation is confined to the project and investigation areas, and does not include the neighbouring and adjacent properties, although land uses and possible catchment impacts occurring on surrounding properties were taken into consideration,



- ❖ All wetland areas identified within the 500m of the study area were delineated in fulfilment of GN 509 of the National Water Act, 1998 (Act No.36 of 1998) using desktop methods;
- ❖ At the time of the assessment field assessment, the precautionary principle was applied when verifying the existence of a watercourse and data obtained in the field was compared to digital signatures in digital satellite imagery;
- ❖ Global Positioning System (GPS) technology is inherently inaccurate and some inaccuracies due to the use of handheld GPS instrumentation may occur. If more accurate assessments are required, the watercourse boundaries will need to be surveyed and pegged according to the surveying principles;
- ❖ Watercourse and terrestrial zones create transitional areas where an ecotone is formed as vegetation species change from terrestrial to obligate/facultative species. Within this transition zone, some variation of opinion on watercourse boundaries may occur. However, if the Department of Water Affairs and Forestry (DWAF), 2008 method is followed, all assessors should get largely similar results;
- ❖ The assessment was based on the on a single site visit during the wet season which was conducted on the February 2021, and information provided should be interpreted accordingly. Site visits should ideally be conducted over differing seasons in order to better understand the hydrological and geomorphologic processes governing the wetlands' systems as well as the use of the wetlands by both the surrounding community and faunal species; and
- ❖ The ecology of the wetland ecosystem is complex and dynamic, certain aspect may have been overlooked. However, it is expected that the activities related to the proposed project have been accurately assessed and considered, based on the field observations and consideration of existing studies and monitoring data in terms of wetland ecology.

Biodiversity Assessment

The purpose of the field assessment was not to perform a biodiversity species inventory, given the fact that many species are fairly cryptic and not easily detected within a short space of time. However, the techniques outlined above are considered adequate for the scope of this assessment.



3.7. Alternatives Assessment

The following alternatives have been investigated:

Site Alternatives

No site alternatives have been proposed for this project as the purpose of this application is for the development of a layer chicken farm at Balmoral Farm.

Activity Alternatives

No activity alternatives have been investigated for this project.

Design or Layout Alternatives

Design / layout alternatives were considered for Okusha Supply & Projects Layer Farm. The preferred layout refers to a layout where the proposed development reduces the distance between the borehole and the chicken houses. The other alternative entails rotating the building orientation to avoid the seep and relic wetland identified by the wetland verification assessment.

Technology Alternatives

Technology alternatives are not considered applicable to the general purpose of this project.

Operational Alternatives

No operational alternatives are not considered applicable to the general purpose of this Application as the purpose of this application is for the development of a layer chicken farm.

The No-Go Alternative

The "No Go" alternative is the "no-development alternative". This option of retaining the status quo, and not proceeding with the proposed layer farm development is not reasonable considering the fact that the implementation of the Okusha Supply & Projects



Layer Farm project will contribute in a tangible manner to the employment prospects and socio-economic wellbeing of the residents on the farm and neighbouring properties.

3.8. Summary of Key Findings

Key findings of the impact assessment contained in the BAR are included below: Construction phase impacts identified by the Basic Assessment Process include:

- Potential for Soil Erosion;
- Loss of or damage to Vegetation;
- Impact of litter/waste pollution from the activities and construction workers on site on the surrounding environment;
- Job creation;
- ❖ Noise Impacts;

Operational phase impacts identified by the Basic Assessment Process include:

- Impact of potential soil erosion;
- Impact of odour nuisance from the proposed development;
- Job creation; and
- Positive impact of increased revenue to the local economy.

The proposed development will result in no unacceptable biophysical and socioeconomic impacts, after mitigation. No (post mitigation) impacts of high negative significance will occur as a result of the implementation of the proposed activity during either the construction or operational phase.

Negative impacts on the socio-economic environment are mainly limited to the construction phase and will be of low to very low negative significance with mitigation measures. The proposed development has positive socio-economic impacts of high significance in the construction phase, in terms of job creation, and positive impacts of very high significance in terms of increased revenue into the local economy during the operational phase.

The implementation of the "No-Go" alternative would have a negative impact in terms of the opportunity cost of lost increased revenue to local economy and a low negative impact of job losses. Draft Basic Assessment Report Proposed Okusha Supply and Projects Layer Facility Development Within the Mpofana Local Municipality, Kwazulu-Natal



3.9. Way Forward

The impacts identified and assessed by way of risk ratings, have been extensively reported herein. The report at hand [i.e., dBAR] together with a comprehensive issues trail, the draft of the EMPr, and all Annexures as referred to will now be submitted to the KZN EDTEA, for comment. The fBAR report will be a culmination of scientific specialist studies' findings, public contribution via formal comment, comment made at meetings held, and the drawing of conclusions by the EAP as the environmental specialist.



4. SECTION A: PROJECT INFORMATION

4.1. Project Description

(a) Is the project a new development? If "NO", explain:

Yes. This proposed project is a new layer chicken farm development.

(b) Provide a detailed description of the scope of the proposed development (project).

Okusha Supply and Projects proposes the development of Okusha Supply & Projects layer farm, a poultry farm located in Reitvlei, in the Mpofana Local Municipality. The project entails the construction of 2 buildings each measuring 50m long by 10m wide, housing a total of 10,000-layer chickens in each one-year cycle.

Two specialist studies have been commissioned for this proposed development:

- ❖ Ecological Impact Assessment
- Wetland Verification Impact Assessment to show the proximity of freshwater resources to the project footprint.

(c) List all the listed activities triggered and being applied for.

TABLE 4: LISTED ACTIVITIES OF THE EIA REGULATIONS [2014 AS AMENDED IN 2017]

Relevant	Activity	Description [Verbatim and as per applicability to
notice	No[s]	proposed development]
GNR 327 - Listing Notice 1	Activity 5(ii)	The development and related operation of facilities or infrastructure for the concentration of— (ii) more than 5 000 poultry per facility situated outside an urban area, excluding chicks younger than 20 days; The project entails the development of infrastructure for 10,000 at Mpofana Local Municipality under uMgungundlovu District

Proposed Okusha Supply and Projects Layer Facility Development Within the Mpofana Local Municipality, Kwazulu-Natal



Relevant notice	Activity	Description [Verbatim and as per applicability to		
	No[s]	proposed development]		
GNR 327 - Listing Notice 1	12			
Government Notice Regulation	No relevant ac	No relevant activities		
No. [GNR] 325 of 2017				
GNR 324: Listing Notice 3	14(x) and (xii)	The clearance of an area of 300 square metres or more of indigenous vegetation except where such clearance of Indigenous vegetation is required for maintenance purposes undertaken in accordance with a maintenance management plan. In (d) KwaZulu-Natal xii. Sensitive areas as identified in an environmental management framework as contemplated in chapter 5 of the Act and as adopted by the competent authority. The project entails clearance of vegetation exceeding 300 square metres in a sensitive area under the uMgungundlovu Environmental Management Framework. The development of— (x) buildings exceeding 10 square metres in size; (xii) infrastructure or structures with a physical footprint of 10 square metres or more;] where such development occurs— (a) within a watercourse; (b) in front of a development setback; or (c) if no development setback has been adopted, within 32metres of a watercourse, measured from the edge of a watercourse;		
		In (d) KwaZulu-Natal viii. Sensitive areas as identified in an environmental management framework as contemplated in chapter 5 of the Act and as adopted by the competent authority;		
		The project entails development exceeding 10 square metres in an area identified as a seep wetland that has		



Relevant	Activity	Description [Verbatim and as per applicability to
notice	No[s]	proposed development]
		been severely impacted, located in a sensitive area
		under the uMgungundlovu Environmental
		Management Framework.

(d) Details of all components including associated structures and infrastructure

The construction of an administration Block with parking bays, egg collection and grading room, and ablution facilities with 2 septic tanks, guard house and generator room as supporting infrastructure.

Water Supply Infrastructure

Water Source- Existing borehole on site. Water will be Pumped into 2 Jojo tanks from the boreholes and will supply the chicken houses for both cleaning and chickens to drink.

Electricity Supply

Eskom- the farm is on the Eskom Grid and the chicken houses will be connected to the farm grid.

4.2. Physical size of the Proposed Development

Land Use	Number	Area m²
Layer Hen House	2	1,000
Feeder Tanks	4	40

4.3. Site Access

From Mooi River, Travel along the R622 towards Greytown for approximately 35km. The proposed project Area is located on the right across the Craigie Burn Dam turn-off.



5. SECTION B: DESCRIPTION OF THE PROPERTY (IES) ON WHICH THE LISTED ACTIVITY (IES) ARE TO BE UNDERTAKEN AND THE LOCATION OF THE LISTED ACTIVITY (IES) ON THE PROPERTY

The proposed Okusha Supply & Projects Layer Farm is located within the Reitvlei area of Mpofana, which is a rural agricultural area that is inhabited by commercial and emerging farmers. The broader project footprint has been the subject of varying degrees of impact in terms of cultivation, subsistence farming including growing of crops and keeping of livestock. There are no alternate properties associated with the proposed development.

Coordinates

Coordinates of all the proposed activities on the property or properties (sites):

Point	Latitude (S): (deg.; min.; sec)			Longitude (E): (deg.; min.; sec.)		
Centre of development	29	11	34.27	30	16	40.57

Provide a location map (see below) as Appendix A to this report that shows the location of the proposed development and associated structures and infrastructure on the property; as well as a detailed site development plan / site map (see below) as Appendix B to this report; and if applicable, all alternative properties and locations. The GIS shape files (.shp) for maps / site development plans must be included in the electronic copy of the report submitted to the competent authority.

Locality Map:	The scale of the locality map must be at least 1:50 000.				
	For linear development proposals of more than 25 kilometres, a				
	smaller scale e.g., 1:250 000 can be used. The scale must be indicated				
	on the map.				
	The map must indicate the following:				



•	an accurate indication of the project site position as well as the
	positions of the alternative sites, if any;

- road names or numbers of all the major roads as well as the roads that provide access to the site(s)
- a north arrow;
- a legend;
- a linear scale;
- Coordinates must be provided in degrees, minutes and seconds using the Hartebeesthoek94; WGS84 co-ordinate system.

PLEASE SEE APPENDIX A FOR LOCALITY MAP

Site Plan:

Detailed site development plan(s) must be prepared for each alternative site or alternative activity. The site plans must contain or conform to the following:

- The detailed site plan must preferably be at a scale of 1:500 or at an appropriate scale. The scale must be indicated on the plan, preferably together with a linear scale.
- The property boundaries and numbers of all the properties within
 50m of the site must be indicated on the site plan.
- The current land use (not zoning) as well as the land use zoning of each of the adjoining properties must be indicated on the site plan.
- The position of each element of the application as well as any other structures on the site must be indicated on the site plan.
- Services, including electricity supply cables (indicate aboveground or underground), water supply pipelines, boreholes, sewage pipelines, storm water infrastructure and access roads that will form part of the development must be indicated on the site plan.
- Servitudes and an indication of the purpose of each servitude must be indicated on the site plan.
- Sensitive environmental elements within 100m of the site must be included on the site plan, including (but not limited to):



- Watercourses / Rivers / Wetlands including the 32-meter set back line from the edge of the bank of a river/stream/wetland;
- Flood lines (i.e., 1:100 year, 1:50 year and 1:10 year where applicable;
- Ridges;
- Cultural and historical features;
- Areas with indigenous vegetation (even if degraded or infested with alien species).
- Whenever the slope of the site exceeds 1:10, a contour map of the site must be submitted.
- North arrow

A map/site plan must also be provided at an appropriate scale, which superimposes the proposed development and its associated structures and infrastructure on the environmental sensitivities of the preferred and alternative sites indicating any areas that should be avoided, including buffer areas.

PLEASE SEE APPENDIX C FOR SITE DEVELOPMENT PLAN.

6. SITE PHOTOGRAPHS

Colour photographs of the site and its surroundings (taken on the site and taken from outside the site) with a description of each photograph. The vantage points from which the photographs were taken must be indicated on the site plan, or locality plan as applicable. If available, please also provide a recent aerial photograph. Photographs must be attached as Appendix B to this report. The aerial photograph(s) should be supplemented with additional photographs of relevant features on the site. Date of photographs must be included. Please note that the above requirements must be duplicated for all alternative sites.

PLEASE SEE APPENDIX B FOR SITE PHOTOGRAPHS



6.1. Gradient of the Site

Indicate the general gradient of the sites

The study site sits in a flat area, sloping gently downwards to the north, with altitude ranging between 1340-1360 masl. The area within the site is classified as consisting of KwaZulu-Natal Highland Thornveld (Gs 6, Least Concern), but is close to the transition to Mooi River Highland Grassland (GS8, Endangered) (Mucina & Rutherford, 2006, 2019).

6.2. Provide a description of the location in the landscape.

The site is situated in Reitvlei, Mpofana in KwaZulu Natal. The site is surrounded by other farmland with the Craigieburn Dam approximately 1.2km North of the farm boundary, on the other side of the R622 road between Mooi River and Greytown.

6.3. Groundwater, Soil and Geological Stability of the Site

(a) Is the site(s) located on or near any of the following (highlight the appropriate boxes)?

Shallow water table (less than 1.5m deep)	✓ Yes	No	Unsure	
Seasonally wet soils (often close to water bodies)	✓ Yes	✓ Yes No		
Unstable rocky slopes or steep slopes with loose soil	Yes	✓ No	Unsure	
Dispersive soils (soils that dissolve in water)	Yes	✓ No	Unsure	
Soils with high clay content	Yes	No	✓ Unsure	
Any other unstable soil or geological feature	Yes	✓ No	Unsure	
An area sensitive to erosion	Yes	✓ No	Unsure	
An area adjacent to or above an aquifer.	Yes	✓ No	Unsure	
An area within 100m of a source of surface water	Yes	✓ No	Unsure	



An area within 500m of a wetland	✓ Yes	No	Unsure
An area within the 1:50 year flood zone	Yes	✓ No	Unsure
A water source subject to tidal influence	Yes	✓ No	Unsure

6.4. Provide a description of the type of geological formation underlying the site.

This region is characterised by intergranular and fracture rock aquifers with extremely low to medium development potential. The underlying geology is mostly arenaceous rocks of the Ecca Formation.

The site lies over two types of major rock formations, Shale and Mudstone.

6.5. Surface Water

Indicate the surface water present on and or adjacent to the site and alternative sites (highlight the appropriate boxes)?

Perennial River	Yes	✓ No	Unsure
Non-perennial river	Yes	✓ No	Unsure
Permanent Wetland	Yes	✓ No	Unsure
Seasonal Wetland	✓ Yes	No	Unsure
Artificial Wetland	Yes	✓ No	Unsure
Estuarine/ Lagoon	Yes	✓ No	Unsure

6.6. Biodiversity

Highlight the applicable biodiversity planning categories of all areas on preferred and alternative sites



Evaluation of the site determined that no pristine or near- pristine natural vegetation is present, and the site has been virtually completely transformed in the past and currently. At present, it consists of the following landcovers;

- Kikuyu grassland dense Kikuyu Pennisetum clandestinum covers much of the southern half upper-slope of the property
- Mixed weedy secondary vegetation, including a variety of alien, annual weedy species, such as Tagetes minuta, Bidens pilosa, Cyrsium vulgare and others, cover large areas in the central and northern portions
- ❖ Ploughed land a large area in the central section had recently been ploughed
- Some areas of secondary grassland, dominated by Eragrostis curvula grass, occurred in the northern and western portion.

No aquatic habitats or any rocky areas are present on or close to the site.

The adjacent landcover within 100m of the site is also virtually entirely transformed or disturbed. In the south and east, the site is bordered by buildings and secondary vegetation, in the north by actively managed agricultural cropland, and in the west by secondary vegetation. Somewhat disturbed grassland occurs from 100m east of the site, and improves in condition with distance from the site, and an extensive wetland system in fair condition is present 400m east of the site.

6.7. Land use of the site

Untransformed area	5		High density residential	Informal residential
Retail	Commercial & warehousing	Light industrial	Medium industrial	Heavy industrial
Power station	Office/consultin g room	Military or police base/station/compound	Casino/entertai nment complex	Tourism and Hospitality facility
Open cast mine	Underground mine	Spoil heap or slimes dam	Quarry, sand or borrow pit	Dam or reservoir
Hospital/medic al centre	School	Tertiary education facility	Church	Old age home



Sewage	Train station or	Railway	line	Majo	r road (4	Airport
treatment plant	shunting yard			lanes	s and more)	
Harbour	Sport facilities	Golf course		Polo fields		Filling station
Landfill or waste treatment site	Plantation	✓ Agriculture			liver, stream r wetland	Nature conservation area
Mountain, koppie	Museum	1				

Provide a description.

The dominant land use within and surrounding the wetland are open space/wilderness and cultivated agriculture. It should be noted both historic and ongoing agricultural activities have impacted this wetland area to some degree. Ultimately the functionality of the wetland have been degraded to some degree. Some areas within the delineated wetland which have been significantly impacted by agricultural activities, were considered as relic wetland area, as those areas no longer function as wetland

6.8. Land use character of the surrounding area

Untransformed area	Low density residential	Medium density residential			
Retail	Commercial & warehousing	Light industrial	Medium industrial	Heavy industrial	
Power station	Office/consultin g room	Military or police base/station/compound	Casino/entertai nment complex	Tourism and Hospitality facility	
Open cast mine	Underground mine	Spoil heap or slimes dam	Quarry, sand or borrow pit	Dam or reservoir	
Hospital/medi cal centre	School	Tertiary education facility	Church	Old age home	
Sewage treatment plant	Train station or shunting yard	Railway line	Major road (4 lanes and more)	Airport	
Harbour	Sport facilities	Golf course	Polo fields	Filling station	
Landfill or waste treatment site	Plantation	✓ Agriculture	✓ River, stream or wetland	Nature conservation area	
Mountain, koppie or ridge Museum					



Provide a description

The presence of a seep, channelled valley bottom and relic wetland have been noted near the site.

6.9. Socio-Economic Aspects

Describe the existing social and economic characteristics of the community in the vicinity of the proposed site, in order to provide baseline information (for example, population characteristics/demographics, level of education, the level of employment and unemployment in the area, available work force, seasonal migration patterns, major economic activities in the local municipality, gender aspects that might be of relevance to this project, etc).

The municipality has a total population of approximately 38 301 according to the 2011 Population Census. A large portion of the population is still dependent on a relatively small portion of the population earning an income. This, combined with the high unemployment rate, the situation becomes dire.

Economic aspects

The Reitvlei area is in Ward 4 of the Municipality has been identified as one of two of the most densely populated Wards. The number of men in the municipality is slightly higher than that of women, probably indicating the pattern of male migrant workers into the municipality, seeking work on commercial farms with women tending to households needs and practicing subsistence farming in the traditional areas of the municipality, especially those areas in the central and eastern parts of the municipality.

6.10. Historical and Cultural Aspects

(a) Please be advised that if Section 38 of the NHRA is applicable to your proposed development, you are requested to furnish this Department with written comment from Amafa aKwaZulu-Natali as part of your public participation process. Amafa aKwaZulu-Natali must be given an opportunity, together with the rest of the I&APs, to comment on any Pre-application BAR, a Draft BAR, and Revised BAR.

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Section 38 of the NHRA states the following:

- "38. (1) Subject to the provisions of subsections (7), (8) and (9), any person who intends to undertake a development categorised as-
 - (a) the construction of a road, wall, power line, pipeline, canal or other similar form of linear development or barrier exceeding 300m in length;
 - (b) the construction of a bridge or similar structure exceeding 50m in length;
 - (c) any development or other activity which will change the character of a site-
 - (i) exceeding 5 000m2 in extent; or
 - (ii) involving three or more existing erven or subdivisions thereof; or
 - (iii) involving three or more erven or divisions thereof which have been consolidated within the past five years; or
 - (iv) the costs of which will exceed a sum set in terms of regulations by SAHRA or a provincial heritage resources authority;
 - (d) the re-zoning of a site exceeding 10 000m² in extent; or
 - (e) any other category of development provided for in regulations by SAHRA or a provincial heritage resources authority, must at the very earliest stages of initiating such a development, notify the responsible heritage resources authority and furnish it with details regarding the location, nature and extent of the proposed development".
- (a) The impact on any national estate referred to in section 3(2), excluding the national estate contemplated in section 3(2)(i)(vi) and (vii), of the NHRA, must also be investigated, assessed and evaluated. Section 3(2) states the following:
- "3(2) Without limiting the generality of subsection (1), the national estate may include—
 - (a) places, buildings, structures and equipment of cultural significance;
 - (b) places to which oral traditions are attached or which are associated with living heritage;
 - (c) historical settlements and townscapes;
 - (d) landscapes and natural features of cultural significance;
 - (e) geological sites of scientific or cultural importance;
 - (f) archaeological and palaeontological sites;
 - (g) graves and burial grounds, including—
 - (i) ancestral graves;
 - (ii) royal graves and graves of traditional leaders;
 - (iii) graves of victims of conflict;



- (iv) graves of individuals designated by the Minister by notice in the Gazette;
- (v) historical graves and cemeteries; and
- (vi) other human remains which are not covered in terms of the Human Tissue Act, 1983 (Act No. 65 of 1983);
- (h) sites of significance relating to the history of slavery in South Africa;
- (i) movable objects, including—
 - (i) objects recovered from the soil or waters of South Africa, including archaeological and paleontological objects and material, meteorites and rare geological specimens;
 - (ii) objects to which oral traditions are attached or which are associated with living heritage;
 - (iii) ethnographic art and objects;
- (iv) military objects;
- (v) objects of decorative or fine art;
- (vi) objects of scientific or technological interest; and
- (vii) books, records, documents, photographic positives and negatives, graphic, film or video material or sound recordings, excluding those that are public records as defined in section 1(xiv) of the National Archives of South Africa Act, 1996 (Act No. 43 of 1996)".

Is Section 38 of the NHRA applicable to the	✓ Yes	No	Uncertain
proposed development?			

The layer farm project does not exceed the threshold specified in terms of S38 of the National Heritage Resources Act. A statutory comment is therefore required and has been sent to AMAFA aKwaZulu-Natali.

Impacts on the NHRA Sections

Act	Section	Description	Possible	Action
			Impact	
National Heritage	34	Preservation of buildings older than 60 years	No Impact	None
Resources Act (NHRA)	35	Archaeological, Paleontological and meteor sites	No Impact	None
	36	Graves and Burial Sites	No Impact	None



37	Protection of Public Monuments	No Impact	None
38	Does activity trigger a	No	None
	HIA?		

NHRA Triggers

Action Trigger	Yes/No	Description
Construction of a road, wall, power line, pipeline,	No	N/A
canal or other linear form of development or		
barrier exceeding 300m in length.		
Construction of a bridge or similar structure	No	N/A
exceeding 50m in length.		
Development exceeding 5000 m ²	No	N/A
Development involving more than 3 erven or sub	No	N/A
divisions		
Development involving more than 3 erven or sub	No	N/A
divisions that have been consolidated in		
the past 5 years		
Re-zoning of site exceeding 10 000 m2	No	N/A
Any other development category, public open	No	N/A
space, squares, parks or recreational grounds		

7. APPLICABLE LEGISLATION, POLICIES, CIRCULARS AND/OR GUIDELINES

(a) Identify all legislation, policies, plans, guidelines, spatial tools, municipal development planning frameworks, and instruments that are applicable to the development proposal and associated listed activity(ies) being applied for and that have been considered in the preparation of the BAR.



LEGISLATION,	ADMINISTERING AUTHORITY	ТҮРЕ	DATE
POLICIES,	and how it is relevant to this	Permit/license/authorisation/co	(if already
PLANS,	application	mment / relevant consideration	obtained):
GUIDELINES,		(e.g., rezoning or consent use,	
SPATIAL		building plan approval, Water Use	
TOOLS,		License and/or General	
MUNICIPAL		Authorisation, License in terms of	
DEVELOPMEN		the SAHRA and CARA, coastal	
T PLANNING		discharge permit, etc.)	
FRAMEWORKS,			
AND			
INSTRUMENTS			
National	Department of Economic	Environmental Authorisation via a	Application in
Environmental	Development Tourism and	Basic Assessment Process	progress
Management	Environmental Affairs		
Act, 1998 (Act			
No. 107 1998)	The proposed development		
EIA regulations,	triggers listed activities in listing		
2014, as	Notice 1 and 3, which requires		
amended (GN	environmental authorisation.		
No. R. 326) and			
Listing Notices			
1, 2 and 3.			
National	Ezemvelo KZN Wildlife	Comment	Application in
Environmental	The ecosystem status of the		progress
Management:	affected vegetation type was		
Biodiversity Act	gained using the List of		
(Act No. 10 of	Threatened Terrestrial		
2004) list of	Ecosystems (Government		
ecosystems that	Gazette, 2011). The gazette		
are threatened	listings are crucial to		
and in need of	commenting on the level of		
protection	sensitivity in relation to natural		
	vegetation quantity and quality,		

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		2	dvancement Through Sustainability
	and hence in the assessment of		
	the significance of the potential		
	impact of the proposed project		
	on vegetation. A specialist		
	botanical assessment has been		
	undertaken (by Bergwind		
	Botanical Surveys and Tours cc)		
	to assess the potential impacts of		
	the proposed project on		
	vegetation.		
The	Department of Agriculture, Land	Comment	Comment will be
Conservation of	Reform and Rural Development		obtained through
Agricultural			the comment
Resources			period of the
			BAR.
National	Amafa aKwaZulu-Natali	Comment	A NID was lodged
Heritage	In terms of Section 38(1) of the		to Amafa
Resources Act,	NHRA, any person who intends		aKwaZulu-Natali
1999 (Act No. 25	to undertake "any development		on 16 th April
of 1999)	which will change the		2021
	character of a site exceeding 5		
	000 m ² in extent", must at the		
	very earliest stages of initiating		
	the development notify the		
	responsible heritage resources		
	authority, viz. the South African		
	Heritage Resources Agency		
	("SAHRA") or the relevant		
	provincial heritage agency, viz		
	A		
	Amafa aKwaZulu-Natali		

DOLLCV	/ CHIDELINEC
PULICY	GUIDELINES /

ADMINISTERING AUTHORITY



NEMA Environmental Impact Assessment Regulations Guidelines and Information Document Series (March 2013) on:	EDTEA
Mpofana Local Municipality Final Integrated Development Plan Review (2020/2021).	Mpofana Local Municipality
Mpofana Local Municipal Spatial Development Framework,	Mpofana Local Municipality
uMgungundlovu District Integrated Development Plan	uMgungundlovu District Municipality
uMgungundlovu District Spatial Development Framework	

Describe how the proposed development complies with and responds to the legislation and policy context, plans, guidelines, spatial tools, municipal development planning frameworks and instruments.

LEGISLATION, POLICIES, PLANS, GUIDELINES, SPATIAL TOOLS, MUNICIPAL DEVELOPMENT PLANNING FRAMEWORKS, AND INSTRUMENTS	Describe how the proposed development complies with and responds:
National Environmental Management	The NEMA, as amended, and EIA Regulations (2014)
Act, 1998 (Act No. 107 1998) EIA	were consulted to determine the applicable activities
Regulations, 2014, as amended (GN	triggered in Listing Notices 1, 2, and/or 3 for the
No. R. 982, R. 983, R.984 and R.985).	proposed project. It was thereafter determined that
	the proposed project will require an Environmental
	Authorisation from EDTEA via the Basic Assessment
	process outlined in GN. 326.
National Environmental Management:	The ecosystem status of the affected vegetation type
Biodiversity Act (Act No. 10 of 2004)	was gained using the List of Threatened Terrestrial
list of ecosystems that are threatened	Ecosystems (Government Gazette, 2011). The gazette



and in need of protection, (G 34809,	listings are crucial to commenting on the level of
GN 1002), 9 December 2011	sensitivity in relation to natural vegetation quantity
	and quality, and hence in the assessment of the
	significance of the potential impact of the proposed
	project on vegetation. A specialist botanical
	assessment has been undertaken to assess the
	potential impacts of the proposed project on
	vegetation.
National Heritage Resources Act, 1999	In terms of Section 38(1) of the NHRA, any person
(Act No. 25 of 1999)	who intends to undertake "any development which
	will change the character of a site exceeding 5 000 m ²
	in extent", must at the very earliest stages of initiating
	the development notify the responsible heritage
	resources authority, viz. the South African Heritage
	Resources Agency ("SAHRA") or the relevant
	provincial heritage agency, viz Amafa aKwaZulu-
	Natali.
	The Okusha layer project falls below this threshold
	however a Notification of Intent to Develop has been
	sent to Amafa aKwaZulu-Natali.
NEMA Environmental Impact	The applicable guidelines (outlined above) were
Assessment Regulations Guidelines	reviewed in conjunction with the applicable sections
and Information Document Series	of the EIA Regulation R.326 to ensure that all legal
	requirements were adequately met and that
	principles of best practice were applied, where
	applicable.
KwaZulu-Natal Provincial Spatial	The PSDF was reviewed to determine whether the
Development Framework	proposed project is in line with the principles and
	action plans of the PSDF. Refer to Section D: Need and
	Desirability for information on how the activity
	aligned with the municipal planning policies.



Mpofana Local Municipal Spatial	Refer to Section D: Need and Desirability for
Development Framework	information on how the activity aligned with the
	municipal planning policies.
Mpofana Local Municipal Final	Refer to Section D: Need and Desirability for
Integrated Development Plan	information on how the activity aligned with the
	municipal planning policies.
uMgungundlovu District Integrated	Refer to Section D: Need and Desirability for
Development Plan	information on how the activity aligned with the
	municipal planning policies.
uMgungundlovu District Spatial	Refer to Section D: Need and Desirability for
Development Framework	information on how the activity aligned with the
	municipal planning policies.
Guideline for Environmental	Refer to Appendix F : Environmental Management
Management Plans, June 2006	Plan

8. SECTION C: PUBLIC PARTICIPATION

The PPP must fulfil the requirements outlined in the NEMA, the EIA Regulations, 2014 (as amended) and if applicable any other legislation, and guidelines must also be taken into account.

1. Please highlight the appropriate box to indicate whether the specific requirement was undertaken or whether there was an exemption applied for.

In terms of Regulation 41 of the EIA Regulations, 2014 (as amended) -			
(a) fixing a notice board at a place conspicuous to and accessible by the public at the boundary, on the fence or			
along the corridor of -			
	YES	EXEMPTION	N/A



(i) the site where the activity to which the application relates, is or is to be	e YES	
undertaken; and		
(ii) any alternative site		N/A
(b) giving written notice, in any manner provided for in Section 47D of the N	EMA, to –	
(i) the occupiers of the site and, if the applicant is not the owner or person ir	1	N/A
control of the site on which the activity is to be undertaken, the owner or	r	
person in control of the site where the activity is or is to be undertaken or to		
any alternative site where the activity is to be undertaken;		
(ii) owners, persons in control of, and occupiers of land adjacent to the site	e YES	
where the activity is or is to be undertaken or to any alternative site where	9	
the activity is to be undertaken;		
(iii) the municipal councillor of the ward in which the site or alternative site	e YES	
is situated and any organisation of ratepayers that represent the community	7	
in the area;		
(iv) the municipality (Local and District Municipality) which has jurisdiction	n YES	
in the area;		
(v) any organ of state having jurisdiction in respect of any aspect of the	YES	
activity; and		
(vi) any other party as required by the Department;	YES	
(c) placing an advertisement in -		
(i) one local newspaper; or	YES	
(ii) any official Gazette that is published specifically for the purpose of	f	N/A
providing public notice of applications or other submissions made in terms of	f	
these Regulations;		
(d) placing an advertisement in at least one provincial newspaper or nationa	l	N/A
newspaper, if the activity has or may have an impact that extends beyond the	9	
boundaries of the metropolitan or district municipality in which it is or wil	l	
be undertaken		
(e) using reasonable alternative methods, as agreed to by the Department, ir	n YES	
those instances where a person is desirous of but unable to participate in the	9	
process due to—		
(i) illiteracy;		
(ii) disability; or		
(iii) any other disadvantage.		



If you have indicated that "EXEMPTION" is applicable to any of the above, proof of the exemption decision must be appended to this report.

NOT APPLICABLE, NO EXEMPTIONS FOR THIS APPLICATION

Provide a list of all the State Departments and Organs of State that were consulted: The following departments will be contacted as part of the Basic Assessment process. These state departments and organs of state will be provided with an opportunity to comment, along with all registered interested and affected parties on the proposed development. Their comments will be included as part of the final basic assessment report and included in the comments and response report.

State Department / Organ of State

Department of Agriculture, Land Reform and Rural Development

Department of Economic Development, Tourism Environmental Affairs

Amafa aKwaZulu-Natal

Ezemvelo KZN Wildlife

uMgungundlovu District Municipality

Department of Human Settlement, Water and Sanitation

Provide a summary of the issues raised by I&APs and an indication of the manner in which the issues were incorporated, or the reasons for not including them.

(The detailed outcomes of this process, including copies of the supporting documents and inputs must be included in a Comments and Response Report to be attached to the BAR (see note below) as Appendix E).

- Employment opportunities for the residents of the Farm
- Duration of time before construction begins

Provide a summary of any conditional aspects identified / highlighted by any Organs of State, which have jurisdiction in respect of any aspect of the relevant activity.

• None at this stage



A list of all the potential I&APs, including the Organs of State, notified and a list of all the registered I&APs must be submitted with the BAR. The list of registered I&APs must be opened, maintained and made available to any person requesting access to the register in writing.

The BAR must be submitted to the Department when being made available to I&APs, including the relevant Organs of State and State Departments which have jurisdiction with regard to any aspect of the activity, for a commenting period of at least 30 days. Unless agreement to the contrary has been reached between the Competent Authority and the EAP, the EAP will be responsible for the consultation with the relevant State Departments in terms of Section 240 and Regulation 7(2) – which consultation must happen simultaneously with the consultation with the I&APs and other Organs of State.

All the comments received from I&APs on the BAR must be recorded, responded to and included in the Comments and Responses Report included as **Appendix E** of the BAR. If necessary, any amendments made in response to comments received must be effected in the BAR itself. The Comments and Responses Report must also include a description of the PPP followed.

The minutes of any meetings held by the EAP with I&APs and other role players wherein the views of the participants are recorded, must also be submitted as part of the public participation information to be attached to the final BAR as **Appendix E**.

Proof of all the notices given as indicated, as well as notice to I&APs of the availability of the Pre-Application BAR (if applicable), Draft BAR, and Revised BAR (if applicable) must be submitted as part of the public participation information to be attached to the BAR as **Appendix E**. In terms of the required "proof" the following must be submitted to the Department:

- a site map showing where the site notice was displayed, a dated photograph showing the notice displayed on site and a copy of the text displayed on the notice;
- in terms of the written notices given, a copy of the written notice sent, as well as:
 - if registered mail was sent, a list of the registered mail sent (showing the registered mail number, the name of the person the mail was sent to, the address of the person and the date the registered mail was sent);
 - o if normal mail was sent, a list of the mail sent (showing the name of the person the mail was sent to, the address of the person, the date the mail was sent, and the signature of the post office worker or the post office stamp indicating that the letter was sent);
 - o if a facsimile was sent, a copy of the facsimile report;
 - o if an electronic mail was sent, a copy of the electronic mail sent; and
 - o if a "mail drop" was done, a signed register of "mail drops" received (showing the name of the person the notice was handed to, the address of the person, the date, and the signature of the person); and
- a copy of the newspaper advertisement ("newspaper clipping") that was placed, indicating the name of the newspaper and date of publication (of such quality that the wording in the advertisement is legible).

9. SECTION D: NEED AND DESIRABILITY

The Guideline on Need and Desirability in terms of the Environmental Impact Assessment (EIA) Regulations, 2010 published by the national Department of Environmental Affairs on 20 October 2014 (GN No. 891 on Government Gazette No. 38108 refers) (available at:



http://www.gov.za/sites/www.gov.za/files/38108 891.pdf) also applied to EIAs in terms of the EIA Regulations, 2014 (as amended).

1 Is the development populitied in terms of the property's evicting	Voc		Dlagge Eymlein					
1. Is the development permitted in terms of the property's existing	Yes		Please Explain					
land use rights?								
The is currently zoned agriculture.								
2. Will the development be in line with the following?								
(a) Provincial Spatial Development Framework ("PSDF"). Yes Please Explain								
Two of the guiding principles of the PSDF are the strategic goals of	of susta	inabilit	y and community					
development. Land development should be spatially compact, resource-fr	ugal, co	mpatibl	e with cultural and					
scenic landscapes, and should not involve the conversion of high potentia	ıl agricu	ltural la	nd or compromise					
ecosystems. The focus should be on creating complex, diverse and r	esilient	spatial	systems that are					
sustainable in all contexts. Development should be contained within a lim	ited foo	tprint, p	referably adjacent					
to existing settlements, and the required ecological buffers and setbacks	must be	adhere	d to.					
The specialist studies undertaken as part of this Basic Assessment proc	ess will	ensure	that the proposed					
development is in line with the PSDF and that the project design, construc	ction an	d opera	tion of any aspects					
of the project (if the BAR is approved), are appropriate to ensuring that ed	cologica	l integri	ty is maintained at					
an acceptable level.								
(b) Integrated Development Plan and Spatial Development		No	Please explain					
Framework of the Local Municipality (e.g., would the approval of								
this application compromise the integrity of the existing approved								
and credible municipal IDP and SDF?).								
Mpofana Spatial Development Framework has identified a lot of area	as withi	n the r	nunicipality to be					
Emerging Farmer Focus zones, and supports initiatives to sustainab	oly explo	oit the n	nunicipality's wide					
variety of agricultural. The main economic resources of the Mpofana to	own inc	lude ag	riculture and eco-					
tourism.								
The proposed development (through providing employment) will theref	ore not	compro	omise the integrity					
of the existing IDP and SDF, but should benefit the municipality via		_						
economy and decrease reliance on the SASSA grant.								
Does the community/area need the project and the associated land	YES		Please explain					
use concerned (is it a societal priority)? (This refers to the strategic								



as well as local level (e.g., development is a National Priority, but			
within a specific local context it could be inappropriate.)			
The surrounding community would benefit from the development in t	erms of	a num	ber of temporary
employment opportunities during the construction, as well as permane	ent posi	itions o	nce the project is
operational.			
Is this project part of a national programme to address an issue of		NO	Please explain
national concern or importance?			
The proposed project addresses a local need. "The need and desirability f	or the l	ayer far	m development is
of high priority due to the high unemployment rate and overreliance on th	ne SASS.	A social	grant.
Do location factors favour this land use (associated with the development	YES		Please explain
proposal and associated listed activity(ies) applied for) at this place? (This			
relates to the contextualisation of the proposed land use on the proposed			
site within its broader context.)			
Yes, the site is ideal for a layer farm development.			
Will the development proposal or the land use associated with the		NO	Please explain
development proposal applied for, impact on sensitive natural and			
cultural areas (built and rural/natural environment)?			
Since the proposed development is in accordance with the existing sur	roundin	g land ı	use, no significant
impact on the environment is anticipated. Some minor impacts are ant	icipated	d during	the construction
phase of the project; however, these can readily be mitigated thro	ugh the	e imple	mentation of the
Environmental Management Program (EMPr) for the development (Ref	er to A	ppendix	x F). There are no
heritage or archaeological sensitives on the proposed development site. A	speciali	st's ecol	logical assessment
was also completed for the site and found no areas of natural sensitivity a	nd cons	ervatio	n significance. The
botanical report can be found in Appendix D.			
Will the development impact on people's health and well-being (e.g.,		NO	Please explain
in terms of noise, odours, visual character and 'sense of place', etc.)?			
Since the proposed development is designed in accordance with the exist	ting sur	roundin	ng residential land
use, no significant negative impacts on health and wellbeing are antic	ipated.	Some n	ninor impacts are
anticipated during the construction phase of the project; however, these	can rea	dily be	mitigated through
the implementation of the Environmental Management Program (EMPr	r) for th	ie devel	opment (Refer to
Appendix F).			
Will the proposed development or the land use associated with the		NO	Please explain
proposed development applied for, result in unacceptable			
opportunity costs?			
onnortunity costs?			



The development is within the existing development rights of the property, and does not conflict with the relevant planning regulations and zoning scheme. In addition, the proposal would not cumulatively have a significant negative impact on either the bio-physical or socio-economic environment.

What will the cumulative impacts (positive and negative) of the proposed land use associated with the development proposal and associated listed activity(ies) applied for, be?

The proposed development site is in line with the surrounding developments. The proposed project addresses a local need. "The need and desirability for the layer farm development is of high priority due to the lack of employment opportunities and overreliance on the SASSA social grant.

Is the development the best practicable environmental option for	Yes	Please
this land/site?		explain

The site is in line with the surrounding residential land use.

What will the benefits be to society in general and to the local communities?

Please explain

The surrounding community would benefit from the development in terms of a number of temporary employment opportunities during the construction, as well as possible permanent positions during the operational phase of the project. The proposed project addresses a local need. "The need and desirability for the layer farm development is of high priority due to the lack of employment opportunities and overreliance on the SASSA social grant. Jobs will be created with the proposed development in the area of Mpofana during the construction phase, thus unlocking the potential for economic growth and development".

Describe how the general objectives of Integrated Environmental Management as set out in Section 23 of the NEMA have been taken into account:

The general objective of Integrated Environmental Management (Section 23, NEMA 1998) as amended, is listed below with a description of how the proposed project and associated Basic Assessment process has taken these objectives into account:

Promote the integration of the principles of environmental management set out in section 2 into the making of all decisions which may have a significant effect on the environment:

The BAR, through its identification and assessment of positive and negative impacts on the environment and the incorporation of mitigation measures to manage these impacts, will facilitate responsible decision making by the relevant authorities.

Identify, predict and evaluate the actual and potential impact on the environment, socio-economic conditions and cultural heritage, the risks and consequences and alternatives and options for mitigation of activities, with a view to minimising negative impacts, maximising benefits, and promoting compliance with the principles of environmental management set out in section 2 of NEMA:



In terms of the Basic Assessment process for the proposed activity, all potential impacts associated with the proposed development were identified and adequately assessed. Suitable mitigation measures were recommended to reduce the significance of the impacts.

Ensure that the effects of activities on the environment receive adequate consideration before actions are taken in connection with them:

Through inputs from the EAP and specialists during the Basic Assessment process, sufficient information has been made available to ensure that all effects to the surrounding environment have been adequately considered and incorporated into this report for decision making. Two specialist studies have been undertaken for the proposed development, Wetland Verification Assessment and Ecological. Recommendations of these reports have been included in this BAR and in the EMPr.

Ensure adequate and appropriate opportunity for public participation in decisions that may affect the environment:

All public participation requirements in terms of the EIA Regulation Government Notice: R326 will be met during the course of the Basic Assessment process. A comment and response report will be compiled and included as part of the Final BAR. Section C of the report highlight the public participation undertaken during thus far in the basic assessment process.

Ensure the consideration of environmental attributes in management and decision making which may have a significant effect on the environment:

All environmental attributes have been adequately considered. Mitigation measures to manage impacts on sensitive environmental attributes have been included in the report to ensure that impacts on the environment are kept to a minimum.

Identify and employ the modes of environmental management best suited to ensuring that a particular activity is pursued in accordance with the principles of environmental management set out in section 2 of NEMA.

An EMPr has been compiled and attached as **Appendix F**. The mitigation measures suggested (for the construction and operational phases) ensure that potential impacts can be effectively mitigated. The suggested measures outlined in the EMPr are consistent with principles outlined in Section 2 of NEMA.

Describe how the principles of environmental management as set out in Section 2 of the NEMA have been taken into account:

Mitigation measures to manage impacts have been included in the report to ensure that impacts on the environment are kept to acceptable levels. An EMP has been compiled which incorporates the mitigation measures put forward in the BAR. The implementation of the EMP will ensure that environmental management continues throughout the life cycle of the project. The appropriateness of the development in



the broader context has received attention. All of the above aspects contribute to the sustainability of the development.

10. SECTION E: DETAILS OF ALL THE ALTERNATIVES CONSIDERED

The EIA Regulations, 2014 (as amended) defines "alternatives" as "in relation to a proposed activity, means different means of fulfilling the general purpose and requirements of the activity, which may include alternatives to the—

- (a) property on which or location where the activity is proposed to be undertaken;
- (b) type of activity to be undertaken;
- (c) design or layout of the activity;
- (d) technology to be used in the activity; or
- (e) operational aspects of the activity;
- (f) and includes the option of not implementing the activity;"

The NEMA (section 24(4)(a) and (b) of the NEMA, refers) prescribes that the procedures for the investigation, assessment and communication of the potential consequences or impacts of activities on the environment must, *inter alia*, with respect to every application for environmental authorisation –

- ensure that the general objectives of integrated environmental management laid down in the NEMA and the National Environmental Management Principles set out in the NEMA are taken into account; and
- include an investigation of the potential consequences or impacts of the alternatives to the activity on the environment and assessment of the significance of those potential consequences or impacts, including the option of not implementing the activity.

The general objective of integrated environmental management (section 23 of NEMA, refers) is, inter alia, to "identify, predict and evaluate the actual and potential impact on the environment, socio-economic conditions and cultural heritage, the risks and consequences and alternatives and options for mitigation of activities, with a view to minimising negative impacts, maximising benefits, and promoting compliance with the principles of environmental management" set out in the NEMA. The identification, evaluation, consideration and comparative assessment of alternatives directly relate to the management of impacts. Related to every identified impact, alternatives, modifications or changes to the activity must be identified, evaluated, considered and comparatively considered to:

- in terms of negative impacts, firstly avoid a negative impact altogether, or if avoidance is not possible alternatives to better mitigate, manage and remediate a negative impact and to compensate for/offset any impacts that remain after mitigation and remediation; and
- in terms of positive impacts, maximise impacts.



10.1. Details of the Identified and Considered Alternatives and Indicate those Alternatives that were Found to be Feasible and Reasonable

Note: A full description of the investigation of alternatives must be provided and motivation if no reasonable or feasible alternatives exists.

(a) Property and location/site alternatives to avoid negative impacts, mitigate unavoidable negative impacts and maximise positive impacts, or detailed motivation if no reasonable or feasible alternatives exist:

No site alternatives have been proposed for this project as the purpose of this application is for the development of a layer farm. There are no location alternatives as the land is owned by the applicant.

Design or layout alternatives to avoid negative impacts, mitigate unavoidable negative impacts and maximise positive impacts, or detailed motivation if no reasonable or feasible alternatives exist:

Design / layout alternatives were considered for Okusha Supply & Projects layer Farm Development. The proposal is for the construction of 2 buildings each measuring 50m long by 10m wide.

The orientation of the buildings can be changed and be moved outside of the area identified as a seep and relic wetland on the current site, and moved a few metres outside the boundary of the seep/relic wetland. The layout Conceptual Site Development Plan attached as Appendix C.

Technology alternatives (e.g., to reduce resource demand and increase resource use efficiency) to avoid negative impacts, mitigate unavoidable negative impacts and maximise positive impacts, or detailed motivation if no reasonable or feasible alternatives exist:

Technology alternatives are not considered applicable to the general purpose of this Application.



Operational alternatives to avoid negative impacts, mitigate unavoidable negative impacts and maximise positive impacts, or detailed motivation if no reasonable or feasible alternatives exist:

Operational alternatives are not considered applicable to the general purpose of this Application.

The option of not implementing the activity (the 'No-Go' Option):

The "No Go" alternative is the "no-development alternative". This option of retaining the status quo, and not proceeding with the proposed layer farm development is not reasonable considering the fact that the municipality acknowledges a large unemployment rate which can be directly addressed by this development, even at a small scale.

Preferred Alternative

(a) Provide a concluding statement indicating the preferred alternative(s), including preferred location, site, activity and technology for the development.

The proposed development of a chicken egg-layer facility and its associated infrastructure will have some impact on the environment. The findings of the Impact Assessment will see some loss of fauna and flora. Other impacts are the potential air emissions, visual and noise impacts from the construction and operations. Furthermore, many of the impacts are medium to low in the current environment and with the recommended mitigation measures the proposed development will have overall low-impacts of the environment.

The Ecological study found that the adjacent landcover within 100m of the site is also virtually entirely transformed or disturbed. Conservation Important habitats and species were not found, but if any occur around the site they would only be only mildly threatened by the proposed development, if it adheres by the guidelines outlined in the EMPr.

There is a watercourse identified and delineated in the study area. The proposed development will encroach on the seep wetland boundaries and its 500m GN509 Zone of Regulation and 32m NEMA Zone of Regulation. Either a Water Use Licence (WUL) or a



General Authorisation in terms of Section 21 (c) and (i) may be required unless the buildings are moved outside of this regulated area. However, this should be clarified with the relevant DWS officials.

The proposed chicken egg-layer facility also has a positive impact on the economy. The proposed development can potentially have a strong impact on local communities if they provide eggs and other related products locally. The proposed development further has the opportunity for skills development and economic opportunities for its employees during its operations.

No substantial negative impacts have been identified that, in the opinion of the Environmental Practitioner, should be considered as "fatal flaws" from the environmental perspective, and thereby necessitate substantial re-design or termination of the project. Based on the findings of this Basic Assessment, it is the opinion of the EAP that the project benefits outweigh the negative environmental impacts, and that the project will make a positive contribution in the form of temporary and permanent employment opportunities. Provided that the specific mitigation measures are applied effectively, it is proposed that the project receive environmental authorisation in terms of the EIA Regulations promulgated under the National Environmental Management Act (NEMA), (2014). Furthermore, in order to avoid and/or manage the potential negative impacts, and enhance the benefits, an Environmental Management Programme (EMPr) has been compiled. The EMPr is a dynamic document that should be updated regularly and provide clear and implementable measures for the establishment and operation of the chicken egglayer facility.

11. SECTION F: ENVIRONMENTAL ASPECTS ASSOCIATED WITH THE ALTERNATIVES

Describe the Environmental Aspects Associated with the Proposed Development and its Alternatives, focusing on the following:

(a) Geographical, geological and physical aspects:



The study area is in Reitvlei, east of Mpofana town. Mooi River is 1377m above sea level. In Mooi River, the climate is warm and temperate. There is significant rainfall throughout the year in Mooi River. Even the driest month still has a lot of rainfall. According to Köppen and Geiger, this climate is classified as temperate oceanic climate. The temperature here averages 14.7 °C and the annual rainfall is 874 mm.

KwaZulu-Natal Highland Thornveld vegetation type, occurs as a series of patches in central and northern KwaZulu-Natal, extending from Mooi River-Greytown area in the south to Newcastle and Paulpietersburg-Louwsburg areas in the north. Hilly, undulating landscapes, dominated by tall tussock grass, particularly *Hyperrhaenia hirta*, with isolated woodland savanna pockets, typically dominated by *Vachellia* species. It is listed as Least Threatened.

(b) Ecological aspects:

Will the proposed development and its alternatives have an	No	Please Explain
impact on CBAs or ESAs?		
If yes, please explain:		
Also include a description of how the proposed development will		
influence the quantitative values (hectares/percentage) of the		
categories on the CBA/ESA map.		
categories on the CBA/ESA map. 1. There are no Ecological Support Areas or Critical Biodiversity Areas v	vithin th	e project site. The
, ,		•

Will the proposed development and its alternatives have an impact	No	Please Explain	
on terrestrial vegetation, or aquatic ecosystems (wetlands,			
estuaries or the coastline)? If yes, please explain:			

and the nearest CBA-Irreplaceable area is approximately 750m east of the site.

This assessment determined that much of the proposed footprint areas are currently of fairly – very low value for biodiversity. The proposed development on the preferred site and associated activities poses a risk to the ecological integrity of the seep wetland, however an alternative has been proposed to move the buildings outside of the regulation zone to prevent further degradation of the seep wetland.



Will the proposed development and its alternatives have an impact	No	Please Explain
on any populations of threatened plant or animal species, and/or		
on any habitat that may contain a unique signature of plant or		
animal species? If yes, please explain:		

Ten species of conservation importance are known to occur in the broader region (Child et al. 2016 2004; Monadjem et al. 2020, EKZNW database, 2021). None of these will be present however, given the transformed landcover on and immediately surrounding the site.

The likely socio-economic impact if the listed activity is authorised or is not authorised;

If authorised, the proposed development will have a positive socio-economic impact of very high significance in the construction phase, and a positive socio-economic of medium significance in the operational phase in terms of job creation. The only negative socio-economic impacts anticipated in the operation phase is a visual impact of low significance. The development will have a positive impact of high significance in the operational phase, in terms of increased revenue to the local economy.

The implementation of the "No-Go" alternative would have a negative impact of high significance in terms of the opportunity cost of lost revenue to local economy and job losses.

(c) Social and Economic aspects:

What is the agreeted conital value of the project on completion?	Annuar D4	million
What is the expected capital value of the project on completion?	Approx. R4	IIIIIIIIIIII
What is the expected yearly income or contribution to the economy that will	Approx.	R1.5
be generated by or as a result of the project?	million	
Will the project contribute to service infrastructure?		No
Is the project a public amenity?		No
How many new employment opportunities will be created during the	Approxima	tely 80
development phase?		
What is the expected value of the employment opportunities during the	Approx.	
development phase?	R3million	
What percentage of this will accrue to previously disadvantaged individuals?	Approxima	tely 35%
How will this be ensured and monitored (please explain):		



By the correct choice of the contractors and their agreement prior to the contract being awarded. In addition, non-compliance will be monitored with the issuing of penalties if applicable.

How many permanent new employment opportunities will be created during Approximately 25 the operational phase of the project?

How will this be ensured and monitored (please explain):

Through prioritising employment opportunities being given to qualifying unemployed local residents

Any other information related to the manner in which the socio-economic aspects will be impacted:

The surrounding community would gain a marginal benefit from the development in terms of a number of temporary employment opportunities during the construction, as well as possible permanent positions once the project is developed.

Waste and Emissions

(a) Waste (including effluent) management

Will the development proposal produce waste (including	YES	
rubble) during the development phase?		
If yes, indicate the types of waste (actual type of waste, e.g., oil, and	Site clearance	
whether hazardous or not)?	Construct	ion Rubble

During site clearance, the expected volume from clear and grub items.

During the construction phase of the development, rubble would arise as a result of general breakages, off-cuts, batching of materials such as concrete and cement and the accumulation of refuse. The Construction Phase EMPr (Appendix F) provides a detailed description of the manner in which rubble, refuse and material handling would be managed during the construction process. As noted in the Construction phase EMP, a site camp would be located at the property frontage. A skip would be installed in the site camp to allow for the effective management of rubble and debris from the site. The site camp and skip would be hoarded off, screened and maintained in good order. All rubble and refuse arising from the site would be offloaded into the skip which would be emptied at a municipal-approved landfill site. The adequate implementation by the contractor of waste management on site, as determined by the Construction phase EMP, would be monitored by an



independent Environmental Control Officer (ECO), appointed by	the own	ier p	rior to works		
commencing.					
Volumes of waste generated from residential buildings after development (i.e., during the					
operational phase) is yet to be determined by the municipality.					
Will the development proposal produce waste during its operational	YES				
phase?					
If yes, indicate the types of waste (actual type of waste, e.g., oil,					
and whether hazardous or not)					
Domestic refuse and chicken manure mixed with biodegradable saw	dust/hay.				
Will the development proposal require waste to be treated / disp	posed of		NO		
on-site?					
If yes, indicate the types of waste (actual type of waste, e.g.,	oil, and				
whether hazardous or not) and estimated quantity per type per p	phase of				
the proposed development to be treated/disposed of?					
The proposed development will not require waste to be treated or di	sposed of o	on sit	e.		
If no, where and how will the waste be treated / disposed of? Please Operational Phase					
in no, where and now will the waste se treated / alsposed of		•			
explain. Indicate the types of waste (actual type of waste, e.g.		•			
· -	, oil, and	1			
explain. Indicate the types of waste (actual type of waste, e.g.	, oil, and	•			
explain. Indicate the types of waste (actual type of waste, e.g., whether hazardous or not) from the proposed development disposed of?	, oil, and nt to be	•			
explain. Indicate the types of waste (actual type of waste, e.g. whether hazardous or not) from the proposed development disposed of? Approximately 1 tonne per month of waste will be stored in 12.5kg be	, oil, and nt to be ags, waste	will			
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explain. Indicate the types of waste (actual type of waste, e.g., whether hazardous or not) from the proposed development disposed of? Approximately 1 tonne per month of waste will be stored in 12.5kg be saw dust and chicken faeces, which will be stored on an onsite waste sto local farmers as organic garden fertilizer. Describe the measures that will be taken to reduce, reuse or recombost talks to construction staff regarding the reduction, reuse and	, oil, and nt to be ags, waste storage fac	will ility a	and will be sold		
explain. Indicate the types of waste (actual type of waste, e.g. whether hazardous or not) from the proposed development disposed of? Approximately 1 tonne per month of waste will be stored in 12.5kg be saw dust and chicken faeces, which will be stored on an onsite waste sto local farmers as organic garden fertilizer. Describe the measures that will be taken to reduce, reuse or recommondation to local takes to construction staff regarding the reduction, reuse and Contractors to use / source recycled material if possible.	, oil, and nt to be ags, waste storage fac	will ility a	and will be sold		
explain. Indicate the types of waste (actual type of waste, e.g., whether hazardous or not) from the proposed development disposed of? Approximately 1 tonne per month of waste will be stored in 12.5kg be saw dust and chicken faeces, which will be stored on an onsite waste sto local farmers as organic garden fertilizer. Describe the measures that will be taken to reduce, reuse or recommon to the proposed development of the proposed development o	, oil, and nt to be rags, waste storage fac	will ility a	and will be sold		



Carry useful sized offcuts to the next job.

(b) Emissions into the atmosphere

Will the development proposal produce emissions that will be released into the	NO
atmosphere?	
If yes, does this require approval in terms of relevant legislation?	NO
If yes, what is the approximate volume(s) of emissions released into the	
atmosphere?	

Describe the emissions in terms of type and concentration and how these will be avoided/managed/treated/mitigated:

Atmospheric emissions associated with the construction of the proposed development would be negligible odour nuisance during the operational phase of the project. Lastly, the proposed activity would result in the generation of some minor construction related dust. All construction related activities and associated equipment will be compliant with relevant emission legislation and managed in terms of the EMP attached as Appendix F.

WATER USE

(a) Indicate the source(s) of water for the development proposal by highlighting the appropriate box(es).

Municipal	Water board	✓	Groundwater	River, Stream,	Other
				Dam or Lake	

(a) If water is to be extracted from a groundwater source, river, stream,	50	m^3
dam, lake or any other natural feature, please indicate the volume that		
will be extracted per month:		

(b) Does the development proposal require a water use permit / license	NO
from DWS?	

Proposed Okusha Supply and Projects Layer Facility Development Within the Mpofana Local Municipality, Kwazulu-Natal



If yes, please submit the necessary application to the DWS and attach proof thereof to this application as an Appendix.

(c) Describe the measures that will be taken to reduce water demand, and measures to reuse or recycle water:

The project will be constructed with the following in mind:

• Water recycling or reuse measures (Gray water and process recycling systems).

All contractors to educate workers on water usage, and ensure that there is no water wastage. No leaking taps on site.

POWER SUPPLY

(a) Describe the source of power e.g., municipality / Eskom / renewable energy source.

Eskom			

TRANSPORT, TRAFFIC AND ACCESS

Describe the impacts in terms of transport, traffic and access.

Potential increase in terms of traffic during the construction of the layer farm, as well as during the operational phase. This increase traffic will also increase the noise in the surrounding area during construction of the layer farm.

NUISANCE FACTOR (NOISE, ODOUR, etc.)

Describe the potential nuisance factor or impacts in terms of noise and odours.

Potential noise impact during the construction of the proposed developments.

Potential noise impact during the construction due to increase traffic and transporting of material to site.

Potential increase in noise from workers and machinery during the construction of the proposed developments.

Potential odour emissions from manure waste during the operation of the proposed development.



12. SECTION G: IMPACT ASSESSMENT, IMPACT AVOIDANCE, MANAGEMENT, MITIGATION AND MONITORING MEASURES

METHODOLOGY USED IN DETERMINING AND RANKING ENVIRONMENTAL IMPACTS AND RISKS ASSOCIATED WITH THE ALTERNATIVES

(a) Describe the methodology used in determining and ranking the nature, significance consequences, extent, duration and probability of potential environmental impacts and risks associated with the proposed development and alternatives.

The assessment methodology that will be used will be in accordance with the recent revised 2014 EIA Regulations (as amended). The significance of environmental impacts is a function of the environmental aspects that are present and to be impacted on, the probability of an impact occurring and the consequence of such an impact occurring before and after implementation of proposed mitigation measures.

Impact assessment must take into account the nature, scale and duration of effects on the environment, whether such effects are positive [beneficial] or negative [detrimental]. It is also imperative that each issue / impact is also assessed according to the project stages from planning, through construction and operation to the decommissioning phase. Where necessary, the proposal for mitigation or optimisation of an impact is noted.

The environmental impact assessment is focused on the following phases of the project namely: **Pre-Construction, Construction, and Operational Phases** only. The impacts associated with decommissioning phase are not applicable to this project, however, responsible methods of post-construction clean-up are provided in the EMPr.

As the project entails rehabilitation of existing infrastructure which will be permanent, decommissioning is not applicable to this project, however, impacts associated with post construction clean-up are considered.

The potential environmental impacts associated with the project are evaluated according to it nature, extent, duration, intensity, probability and significance of the impacts, whereby:



- *Nature*: A brief written statement of the environmental aspect being impacted upon by a particular action or activity;
- **Extent**: The area over which the impact will be expressed. Typically, the severity and significance of an impact have different scales. This is often useful during the detailed assessment phase of a project in terms of further defining the determined significance or intensity of an impact. For example, high at a local scale, but low at a regional scale;
- Duration: Indicates what the lifetime of the impact will be;
- Intensity: Describes whether an impact is destructive or benign;
- Probability: Describes the likelihood of an impact actually occurring; and
- *Cumulative*: In relation to an activity, means the impact of an activity that in itself may not be significant but may become significant when added to the existing and potential impacts eventuating from similar or diverse activities or undertakings in the area.

Criteria	Description							
EXTENT	National (4) The whole of South Africa	Regional (3) Provincial and parts of neighbouring provinces	Local (2) Within a radius of 2 km of the construction site	Site (1) Within the construction site				
DURATION	Permanent (4) Mitigation either by man or natural process will not occur in such a way or in such a time span that the impact can be considered transient	Long-term (3) The impact will continue or last for the entire operational life of the development, but will be mitigated by direct human action or by natural processes thereafter. The only class of impact which will be non-transitory	Medium-term (2) The impact will last for the period of the construction phase, where after it will be entirely negated	Short-term (1) The impact will either disappear with mitigation or will be mitigated through natural process in a span shorter than the construction phase				
INTENSITY	Very High (4) Natural, cultural and social functions and processes are altered to extent that they permanently cease	High (3) Natural, cultural and social functions and processes are altered to extent that they temporarily cease	Moderate (2) Affected environment is altered, but natural, cultural and social functions and processes continue albeit in a modified way	Low (1) Impact affects the environment in such a way that natural, cultural and social functions and processes are not affected				
PROBABILITY OF OCCURRENCE	Definite (4) Impact will certainly occur	Highly Probable (3) Most likely that the impact will occur	Possible (2) The impact may occur	Improbable (1) Likelihood of the impact materialising is very low				



Significance is determined through a synthesis of impact characteristics. Significance is also an indication of the importance of the impact in terms of both physical extent and time scale, and therefore indicates the level of mitigation required. The total number of points scored for each impact indicates the level of significance of the impact.

	Class	Description
+	Any value	Any positive / beneficial 'impact', i.e., where no harm will occur due to the activity being undertaken.
	Low impact (4 -6 points)	A low impact has no permanent impact of significance. Mitigation measures are feasible and are readily instituted as part of a standing design, construction or operating procedure.
	Medium impact (7 -9 points)	Mitigation is possible with additional design and construction inputs.
-	High impact (10 -12 points)	The design of the site may be affected. Mitigation and possible remediation are needed during the construction and/or operational phases. The effects of the impact may affect the broader environment.
	Very high impact (12 - 14 points)	Permanent and important impacts. The design of the site may be affected. Intensive remediation is needed during construction and/or operational phases. Any activity which results in a "very high impact" is likely to be a fatal flaw.
Status		Denotes the perceived effect of the impact on the affected area.
Positiv	re (+)	Beneficial impact.
Negativ	ve (-)	Deleterious or adverse impact.
Neutra	ıl (/)	Impact is neither beneficial nor adverse.
It is im	nortant to note the	t the status of an impact is assigned based on the status que it is should the project

It is important to note that the status of an impact is assigned based on the *status quo* – i.e., should the project not proceed. Therefore, not all negative impacts are equally significant.

Furthermore, the following must be considered:

• Impacts should be described both before and after the proposed mitigation and management measures have been implemented.



- All impacts should be evaluated for the construction, operation and decommissioning phases of the project, where relevant.
- The impact evaluation should take into consideration the cumulative effects associated with this and other facilities which are either developed or in the process of being developed in the region, if relevant.
- Management Actions:
- Where negative impacts are identified, mitigatory measures will be identified to avoid or reduce negative impacts. Where no mitigatory measures are possible this will be stated.
- Where positive impacts are identified, augmentation measures will be identified to potentially enhance these.
- Quantifiable standards for measuring and monitoring mitigatory measures and enhancements will be set. This will include a programme for monitoring and reviewing the recommendations to ensure their ongoing effectiveness.

Monitoring:

Specialists should recommend monitoring requirements to assess the effectiveness of mitigation actions, indicating what actions are required, by whom, and the timing and frequency thereof.

Cumulative Impact:

Consideration is given to the extent of any accumulative impact that may occur due to the proposed development. Such impacts are evaluated with an assessment of similar developments already in the environment. Such impacts will be either positive or negative, and will be graded as being of negligible, low, medium or high impact.

Mitigation:

The objective of mitigation is to firstly avoid and minimise impacts where possible and where these cannot be completely avoided, to compensate for the negative impacts of the development on the receiving environment and to maximise re-vegetation and rehabilitation of disturbed areas. For each impact identified, appropriate mitigation measures to reduce or otherwise avoid the potentially negative impacts are suggested. All impacts are assessed without mitigation and with the mitigation measures as suggested.



(b) Please describe the underlying assumptions.

The following assumptions and limitations are applicable to this study:

- It is assumed that the proposed development site investigated and assessed for the proposed layer farm development is technically suitable for such development.
- Site alternatives were not investigated due to the fact that this application is project specific for this specific land portion.
- The assumption is made that the information on which this report is based (specialist studies and project information, as well as existing information) is accurate and correct at the time of writing this report.
- It is assumed that the recommendations derived from this study would be included in all tender documentation and the EMP for implementation.

(c) Please describe the uncertainties.

The following assumptions and limitations are applicable to this study:

- It is assumed that the proposed development site investigated and assessed for the proposed layer farm development is technically suitable for such development.
- It is assumed that all municipal infrastructure and capacity to support the proposed layer farm is technically adequate, feasible and viable.
- Site alternatives were not investigated due to the fact that this application is project specific for this specific land portion.
- The assumption is made that the information on which this report is based (specialist studies and project information, as well as existing information) is accurate and correct at the time of writing this report.
- It is assumed that the recommendations derived from this study would be included in all tender documentation and the EMP for implementation.

Describe adequacy of the assessment methods used.



The assessment methodology that will be used will be in accordance with the recent revised 2014 EIA Regulations (as amended). The significance of environmental impacts is a function of the environmental aspects that are present and to be impacted on, the probability of an impact occurring and the consequence of such an impact occurring before and after implementation of proposed mitigation measures.

Identification, assessment and ranking of impacts to reach the proposed alternatives including the preferred alternative within the site

List the identified impacts and risks for each alternative

The preferred layout was chosen by the client as it was the closest to the original layout but reducing the impact of odour nuisance by increasing the space between buildings and reducing the number of buildings originally proposed to accommodate this increase in space. The impact assessment below will be on the preferred alternative, which is the proposed development.

During the **Design and Planning Phase** of the proposed development the following potential impacts must be mitigated for:

• Visual – ensure that the building style, and land use is in line with the surrounding land uses.

During the **construction** of the proposed development the following potential impacts are likely to occur:

- Noise from construction vehicles and construction work force
- Dust from clearing of vegetation and general construction activities
- Increased traffic during the construction phase due to construction vehicles and transportation of materials and staff to site.
- Potential positive impact on the temporary employment for local community members during construction
- Waste and litter from construction activities, which if not dealt with could cause visual impacts
- Stormwater impacts
- Erosion and loss of indigenous vegetation



 Contamination of the environment, through chemical / oil spills from construction activities and vehicles.

During the **operational phas**e of the proposed development the following potential impacts are likely to occur:

- Visual impact of the constructed layer farm
- Increased traffic due to occupancy of residents
- Odour nuisance
- Job creation for local community

No-go Alternative:	The "No Go" Alternative is considered unreasonable due to the fact that the
	property belongs to the Okusha Supply and Projects and has been
	earmarked for the purpose of agriculture in the form of a layer farm to
	address an unemployment in the area. With the "no go" alternative none
	of the impacts listed above would occur. If the proposed project does not
	proceed, increased income and economic spin-off activities will not be
	realised.

(a) Describe the impacts and risks identified for each alternative, including the nature, significance, consequence, extent, duration and probability of the impacts, including the degree to which these impacts can be reversed; may cause irreplaceable loss of resources; and can be avoided, managed or mitigated.

Impact Phase: Planning, Design and Development											
Potential impac	Potential impact description: potential loss of indigenous vegetation										
	Extent Duration Severity Status Significance Probability Confidence										
Without	Low	High	Medium	Negative	Medium	High	High				
Mitigation	Mitigation										
With	Low	Low	Low	Neutral	Low	Low	High				
Mitigation	Mitigation										

Proposed Okusha Supply and Projects Layer Facility Development Within the Mpofana Local Municipality, Kwazulu-Natal



Can the impact be reversed?	Yes - with the implementation of the mitigation						
	measures.						
Will impact cause irreplaceable	No – with the implementation of the mitigation						
loss or resources?	measures, the indigenous vegetation will not be lost.						
Can impact be avoided,	Yes – mitigation measures can reduce impacts.						
managed or mitigated?							
Mitigation measures							
Cumulative Impact							

Construction Phase Impact Assessment

Impact Phase: Construction

Potential impact description: increase in dust and erosion from clearing vegetation, earth moving activities and increase vehicle traffic.

	Extent	Duration	Severity	Status	Significance	Probability	Confidence
Without Mitigation	Low	Low	Low	Negative	Low	Low	High
With Mitigation	Low	Low	Low	Negative	Low	Low	High
Can the impact be reversed?			Yes - w	vith the in	nplementati	on of the	mitigation
			measures.				
Will impact cause irreplaceable loss or			No				
resources?							
Can impact be avoid	Yes –	with the	implemen	tation of	mitigation		
mitigated?	measur	es					

Mitigation measures

- Make use of existing access roads where possible.
- Ensure that dust suppression techniques are implemented on all access roads

Cumulative Impact	No cumulative impacts are anticipated.

Impact Phase: Construction



Potential impact description: Increase in noise levels during the day. These noises may be intrusive and increase annoyance with the project.

	Extent	Duration	Severity	Status	Significance	Probability	Confidence
Without Mitigation	Medium	Low	Medium	Negative	Negative	Medium	High
With Mitigation	Medium	Low	Low	Negative	Low	Low	High
Can the impact be reversed?			Yes – t	the impac	t will stop	once co	nstruction
			activities stop				
Will impact cause irreplaceable loss or			No. The increase in noise levels can increase				
resources?			annoyance levels with the project but will not result				
			in the los	ss of any re	esource or a	n irreplacea	able loss.
Can impact be avoided, managed or			Yes – with the implementation of mitigation				mitigation
mitigated?			measure	S			

Mitigation measures

- Information that should be provided to the potential sensitive receptor(s) include:
 - Proposed working times;
 - How long the activity is anticipated to take place;
 - What is being done, or why the activity is taking place;
 - Contact details of a responsible person where any complaints can be lodged should there be any issue of concern.
 - When working near to potentially sensitive receptors, coordinate the working time with periods when the receptors are not at home where possible.

Technical solutions to reduce the noise impact during the construction phase include:

- Using the smallest/quietest equipment for the particular purpose. The use of smaller equipment therefore would have a significantly lower noise impact;
- Ensuring that equipment is well-maintained and fitted with the correct and appropriate noise abatement measures.
- No night time construction or construction related activities to take place.
- Construction personnel must wear proper hearing protection.
- Ensure construction personnel are provided with adequate Personal Protective Equipment (PPE), where appropriate.

Cumulative Impact	No cumulative impacts are anticipated.



Impact Phase: Construction

Potential impact description: Contamination of the environment from building rubble, chemical / oil spills, litter, portable toilets etc.

	Extent	Duration	Severity	Status	Significance	Probability	Confidence	
Without	Low	Medium	Medium	Negative	Medium	High	High	
Mitigation								
With Mitigation	Low	Low	Low	Negative	Low	Low	High	
Can the impact be reversed?			Yes					
Will impact cause irreplaceable loss			No.					
or resources?								
Can impact be avoided, managed or			Yes					
mitigated?								

Mitigation measures

- Ensure all vehicles and machinery are in good working order. Drip trays should be placed under all stationary construction vehicles.
- Spills on soils must be cleaned up immediately and contained using oil absorbents. This should be place in hazardous waste containers.
- No disposal of spilled products into sewers or drains.
- PPE must be worn during clean-up of hazardous spills
- A chemical toilet must be provided for every 15 workers on site. This toilet must be secured to the ground on a level surface that is sheltered from the elements in order to prevent it from toppling over. A maintenance schedule for the removal and cleaning of these toilets must be established in order to ensure that sufficient ablution facilities for the construction staff are maintained at all times.

Cumulative Impact	No cumulative impacts are anticipated.
•	· · · · · · · · · · · · · · · · · · ·

Impact Phase: Construction



Potential impact description: Large construction vehicles and equipment will alter the character of the area, exposing visual receptors to visual impacts associated with construction. The construction activities may be perceived as an unwelcome visual intrusion.

	Extent	Duration	Severity	Status	Significance	Probability	Confidence	
Without	Medium	Low	Medium	Negative	Medium	High	High	
Mitigation								
With Mitigation	Low	Low	Low	Negative	Low	Low	High	
Can the impact be reversed?			Yes – after construction activities stop					
Will impact cause	irreplacea	able loss	No.					
or resources?								
Can impact be avoided, managed or			Yes - Partially					
mitigated?								

Mitigation measures

- Avoid litter and minimise waste. Adequate waste bins to be provided on site.
- Ensure all waste bins have lids on them and are emptied at a registered landfill at least once a week.
- Demarcate and limit construction area.
- Workforce training to reuse, recycle and minimise waste.

Cumulative Impact	No cumulative impacts are anticipated.

Impact Phase: Construction							
Potential impact de	escription	: Tempoi	rary empl	oyment o	pportunities	s may be o	reated and
afforded to local peo	ople						
Extent Duration Severity Status Significance Probability Confidence							
Without Mitigation	High	Low	Low	Positive	High	High	High
With Mitigation	High	Low	Medium	Positive	High	High	High
Can the impact be re	eversed?		Yes – after construction activities stop				
Will impact cause ir	replaceab	le loss or	No.				
resources?							
Can impact be avoided, managed or			Yes - Partially				
mitigated?							



Mitigation measures

- Preference must be given to local people / contractors.
- Maximise job creation opportunities during the construction phase.
- Where the required skills do not occur locally, and where appropriate and applicable, ensure that relevant local individuals are trained.
- Ensure that an equitable percentage allocation is provided for local labour employment as well as specify the use of small-to-medium enterprises and training specifications in the Contractors contract.
- Ensure that goods and services are sourced from the local and regional economy as far as
 possible.

Cumulative Impact	No cumulative impacts are anticipated.

Impact Phase: Construction								
Potential impact de	scription:	Impacts on	heritage					
	Extent	Duration	Severity	Status	Significance	Probability	Confidence	
Without	Low	Low	Low	Negative	Medium	Low	High	
Mitigation								
With Mitigation	Low	Low	Low	Negative	Low	Low	High	
Can the impact be r	eversed?		No. Impact to archaeological material is low as there are no					
			aspects of heritage or cultural significance occurring on site.					
Will impact cause	irreplacea	ble loss or	No. Impacts to settings are non-existent or too small to have					
resources?			significant effect.					
Can impact be avoided, managed or			Yes					
mitigated?								

Mitigation measures

• No aspects of heritage or cultural significance occur on site, however, should any archaeological materials or heritage resources be found during construction, all work is to be stopped immediately, area is to be cordoned off and an archaeologist contacted immediately to assess the area.

Cumulative Impact	No cumulative impacts are anticipated.

Impact Phase: Construction



	Extent	Duration	Severity	Status	Significance	Probability	Confidence	
Without Mitigation	Low	High	Medium	Neutral	Medium	High	High	
With Mitigation	Low	High	Low	Neutral	Low	Low	High	
Can the impact be reversed?			Yes – when construction ends					
Will impact cause irreplaceable loss or resources?			No.					
Can impact be avoided, managed or mitigated?			Yes- with t	he implem	entation of	mitigation r	neasures.	

- During the construction phase, suitable parking areas should be created and designated for construction trucks and vehicles.
- A construction supervisor should be appointed to co-ordinate construction traffic during the construction phase (by drawing up a traffic plan prior to construction).
- Road barricading should be undertaken where required and road safety signs should be adequately installed at strategic points within the construction site.

Cumulative Impact	Slight increase in traffic and congestion during the
	construction phase. During the operational phase, traffic
	will increase slightly as landowners take up occupancy
	of the houses.

Operational Phase Impact Assessment

Impact Phase: Operational							
Potential impact description: Visual impact of the constructed layer farm developments							
Extent Duration Severity Status Significance Probability Confidence						Confidence	
Without Mitigation	Medium	Medium	Medium	Negative	Medium	Medium	Medium
With Mitigation	Medium	Medium	Medium	Negative	Low	Low	Medium
Can the impact be rev	Can the impact be reversed?			Yes, if the Layer farm development is decommissioned			
Will impact cause irreplaceable loss or			No.				
resources?	resources?						



Can impact be avoided, managed or	Partially				
mitigated?					
Mitigation measures					
The development should not contrast with the existing architecture and style.					
Cumulative Impact	No cumulative impacts anticipated.				

Impact Phase: Operational								
Potential impact description: Socio Economic								
In the form of job creation and increased business for the local economy.								
	Extent	Duration	Severity	Status	Significance	Probability	Confidence	
Without Mitigation	High	High	Medium	Positive	High	Medium	High	
With Mitigation	High	High	Medium	Positive	High	Medium	High	
Can the impact be reversed?			Yes					
Will impact cause irreplaceable loss or			No.					
resources?								
Can impact be avoided, managed or			Yes					
mitigated?								
Mitigation measures								
Use and support of local businesses / suppliers / contractors								
Cumulative Impact Positive cumulative effect on the local econom					iomy			

12.1. Specialist inputs/studies, Findings and Recommendations

Provide a summary of the findings and impact management measures identified in any specialist report and an indication of how these findings and recommendations have been included in the BAR.

Ecological Impact Assessment



This assessment determined that the site is of very low ecological value. This is due to the following:

- ❖ The site has previously been completely transformed and presently consists entirely of low quality secondary and exotic weedy vegetation and bare soil.
- ❖ It does not fall within any areas of strategic conservation importance
- It is immediately surrounded by other landcovers of similarly low value
- It supports highly impoverished ecological communities, consisting of few, generalist species
- ❖ No sensitive species or communities will be present on the site

As a result, the site is considered suitable for the proposed land use and impacts to biodiversity at local and broader levels will be virtually negligible. The following recommendation is made:

- ❖ No impacts, storage of materials or construction-related activities must be allowed in natural areas away from the study site.
- ❖ Care must be taken to ensure no impacts from the development impact on the wetland system and adjacent grassland that sit ca. 400m east of the footprint.

Wetland Verification Assessment

In consideration of the proposed development within the project study area in relation to the receiving environment from watercourse point of view, the following can be concluded:

- ❖ There is a watercourse identified and delineated in the study area. The proposed development will encroach on the seep wetland boundaries and its 500m GN509 Zone of Regulation and 32m NEMA Zone of Regulation.
- As such, activities, as stipulated in Section 21(c) and (i) of the National Water Act, 1998 (Act No.36 of 1998), are triggered and therefore the Risk Assessment as Promulgated in Government Notice 509 of 2016 as it related to the National Water Act, 1998 (Act No. 36 of 1998) is applicable.

It is therefore the opinion of the freshwater ecologist that the proposed development and associated activities pose a risk to the ecological integrity of the seep wetland. The risk assessment is essential to be conducted for this project in quantifying and categorising the



anticipated impacts in relation of the associated activities of the proposed project. However, it must be noted that Department of Human Settlement, Water and Sanitation (DHSWS) is the competent authority, and this opinion must be confirmed by the DHSWS.

ENVIRONMENTAL IMPACT STATEMENT

Provide an environmental impact statement of the following:

The proposed development of a chicken egg-layer facility and its associated infrastructure will have some impact on the environment. The findings of the Impact Assessment will see some loss of flora, however negligible. Other impacts are the potential air emissions, visual and noise impacts from the construction and operations of the project. Furthermore, many of the impacts are medium to low in the current environment and with the recommended mitigation measures the proposed development will have overall low-impacts of the environment.

The Biodiversity Assessment found that Conservation Important habitats and species are absent from the site of the proposed development.

The proposed development will encroach into 500m GN509 Zone of Regulation of the pan/depression wetland located on the western portion of the investigation area. However, the recommendation has been made to relocate the buildings outside of this area for the protection of both the buildings and what remains of the seep and relic wetland.

The proposed chicken egg-layer facility also has a positive impact in the economy of the local community. The proposed development can potentially have a strong impact on local industries if they provide eggs and other related products locally. The proposed development further has the opportunity for skills development and economic opportunities for its employees during its operations.

No substantial negative impacts have been identified that, in the opinion of the Environmental Practitioner, should be considered as "fatal flaws" from the environmental perspective, and thereby necessitate substantial re-design or termination of the project. Based on the findings of this Basic Assessment, it is the opinion of the EAP that the project benefits outweigh the negative environmental impacts, and that the project will make a positive contribution to the local economy. Provided that the specific mitigation measures are applied effectively, it is proposed



that the project receive environmental authorisation in terms of the EIA Regulations promulgated under the National Environmental Management Act (NEMA), (2014).

Furthermore, in order to avoid and/or manage the potential negative impacts, and enhance the benefits, an Environmental Management Programme (EMPr) has been compiled. The EMPr is a dynamic document that should be updated regularly and provide clear and implementable measures for the establishment and operation of the chicken egg-layer facility.

IMPACT MANAGEMENT, MITIGATION AND MONITORING MEASURES

(a) Based on the assessment, describe the impact management, mitigation and monitoring measures as well as the impact management objectives and impact management outcomes included in the EMPr. The EMPr must be attached to this report as Appendix F.

The EMPr addresses the environmental impacts identified in this report, associated with the proposed development. The objectives of the EMPr are to provide detailed information that will advise the planning of the proposed development in order to avoid and reduce potential impacts during construction. The following management objectives are recommended:

- 1. Restrict all habitat loss and disturbances from construction activities to within the proposed and agreed upon site layout.
- 2. Adhere to law and best practice guidelines regarding the displacement of CI and medicinally important floral species.
- 3. Limit indiscriminate killing, persecution or hunting of fauna.
- 4. Regulate / limit access by potential vectors of alien plants.
- 5. By law, remove and dispose of Category 1b alien species on site. All Category 2 species that remain on site must require a permit.
- 6. Ensure that excrement, carcasses, feed, and other operational waste and hazardous materials are appropriately and effectively contained and disposed of without detriment to the environment.
- 7. Detect and control pest infestations before they become a problem through frequent and careful cleaning, monitoring and control.



- 8. Harvesting of indigenous flora for medicine, fire wood, building materials, and other purposes must be prohibited.
- 9. Ensure that flammable materials are stored in an appropriate safe house. Ensure that there are appropriate control measures in place for any accidental fires. If artificial burning is considered necessary to reduce risks to human and infrastructure safety from wild fires, a fire management plan should be compiled with input from an appropriate floral specialist, and diligently implemented. Annual wild fires should be strictly prohibited.
- 10. Limit the effects of noise associated disturbances from chickens and operational activities on sensitive fauna such as owls and medium-large mammals (especially carnivores), potentially occurring hedgehogs and large terrestrial birds.
- 11. A site specific Stormwater Management Plan must be designed and implemented which includes appropriate attenuation facilities on site.
- 12. Erosion control measures must be implemented (Including appropriate attenuation facilities).
- 13. Conservation orientated clauses should be built into contracts for construction personnel, complete with penalty clauses for non-compliance.
- 14. During the construction phase there will be increased surface water runoff and a decreased water quality (with increased silt load and pollution). Completing construction during the winter months would help mitigate the environmental impact.
- 16. The monitoring of the construction site must be carried out by a qualified Environmental Compliance Officer (ECO) with proven expertise in the field so as to ensure compliance to the Environmental Management Programme (EMPr)
- 17. All mitigation measures listed in the BAR as well as the EMPr must be implemented and adhered to.
- 18. Mitigation measures and strict waste management should ensure the prevention of contamination on site.
- 19. The Use of a borehole for water supply must be registered with the Department Human Settlements and Water and Sanitation.
- 20. Limit dust and ensure use of dust suppression.



Describe any assumptions, uncertainties, and gaps in knowledge which relate to the impact management, mitigation and monitoring measures proposed.

Uncertainties form part of any proposed development with regards to the actual degree of impact that the development will have. Any actual and/or site-specific results will only be determined once construction of the development has commenced and the effectiveness of the measures and realised.

13. SECTION H: RECOMMENDATIONS OF THE EAP AND **SPECIALISTS**

Dravida reasons for your opinion	
Listed activity(ies) should be authorised: Yes	
Should of Should hot be dutifolised.	
should or should not be authorised:	
please indicate below whether, in your opinion, the listed activity(ies)	
If the documentation attached hereto is sufficient to make a decision,	
decision in respect of the listed activity(ies) applied for.	
BAR and the documentation attached hereto is sufficient to make a	
(a) In my view as the appointed EAP, the information contained in this Yes	

Provide reasons for your opinion

The proposed development will result in no unacceptable biophysical and socio-economic impacts, after mitigation.

The proposed development through providing temporary and permanent employment will be beneficial and has a very high significance if authorised. The proposed project addresses a local need, as the need and desirability for the layer farm development is of high priority due to the lack of employment opportunities and overreliance on the SASSA social grant, thus unlocking the potential for economic growth and development.

If you are of the opinion that the activity should be authorised, please provide any conditions, including mitigation measures that should in your view be considered for inclusion in an environmental authorisation.



All mitigation measures and management actions as contained in the EMPr must be implemented during the construction of the proposed development.

14. SECTION I: APPENDICES

APPENDIX		Confirm	that
		Appendix is attac	hed
Appendix A:	Locality map	✓	
	Sensitivity Maps		
Appendix B:	Photographs	✓	
Appendix C:	Site development plan(s)	✓	
Appendix D:	Specialist Reports	✓	
Appendix E:	Public participation information: including a copy of the register of I&APs, the comments and responses report, proof of notices, advertisements and any other public participation information as is required	✓	
Appendix F:	EMPr	✓	
Appendix G:	Qualifications of EAP	✓	



15. SECTION J: DECLARATIONS

IKudakwashe M Zhandire, as the appointed EAP hereby declare/affirm:

- the correctness of the information provided as part of this Report;
- that all the comments and inputs from stakeholders and I&APs have been included in this Report;
- that all the inputs and recommendations from the specialist reports, if specialist reports were produced, have been included in this Report;
- any information provided by me to I&APs and any responses by me to the comments or inputs made by I&APs;
- that I have maintained my independence throughout this EIA process, or if not independent, that the review EAP has reviewed my work (Note: a declaration by the review EAP must be submitted);
- that I have throughout this EIA process met all of the general requirements of EAPs as set out in Regulation 13;
- I have throughout this EIA process disclosed to the applicant, the specialist (if any), the Department and I&APs, all material information that has or may have the potential to influence the decision of the Department or the objectivity of any report, plan or document prepared as part of the application;
- have ensured that information containing all relevant facts in respect of the application was distributed or was made available to I&APs and that participation by I&APs was facilitated in such a manner that all I&APs were provided with a reasonable opportunity to participate and to provide comments;
- have ensured that the comments of all I&APs were considered, recorded and submitted to the Department in respect of the application;
- have ensured the inclusion of inputs and recommendations from the specialist reports in respect of the application, if specialist inputs and recommendations were produced;
- have kept a register of all I&APs that participated during the PPP; and



• am aware that a false declaration is an offence in terms of Regulation 48 of the EIA Regulations, 2014 (as amended).

Signature of the EAP:



Name of Company:

Baboloki Geohub and Project Managers

Date: 2021/04/14